**Functions**

https://hr-avatars.s3.amazonaws.com/999ef026-b8cb-40ce-beb9-e8f7f10fd2c6/150x150.png**by [abhiranjan](https://www.hackerrank.com/abhiranjan)**

**Problem Statement**

Functions are a bunch of statements glued together. A function is provided with zero or more arguments, and it executes the statements on it. Based on the return type, it either returns nothing (void) or something.   
  
A sample syntax for a function is

return\_type function\_name(arg\_type\_1 arg\_1, arg\_type\_2 arg\_2, ...) {

...

...

...

[if return\_type is non void]

return something of type `return\_type`;

}

For example, a function to read four variables and return the sum of them can be written as

int sum\_of\_four(int a, int b, int c, int d) {

int sum = 0;

sum += a;

sum += b;

sum += c;

sum += d

return sum;

}

You have to write a function *int max\_of\_four(int a, int b, int c, int d)* which reads four arguments and returns the greatest of them.

**Input Format**

Input will contain four integers - a,b,c,d , one in each line.

**Output Format**

Print the greatest of the four integers.   
*PS:* I/O will be automatically handled.

**Sample Input**

3

4

6

5

**Sample Output**

6

<https://www.hackerrank.com/challenges/c-tutorial-functions>

#include <iostream>

#include <cstdio>

using namespace std;

int max\_of\_four(int a, int b, int c, int d) {

int max = 0;

if( a > b && a > c) {

max = a;

}else {

if(b > c) {

max = b;

} else {

max = c;

}

}

if(max > d) {

return max;

}

return d;

}

int main() {

int a, b, c, d;

scanf("%d %d %d %d", &a, &b, &c, &d);

int ans = max\_of\_four(a, b, c, d);

printf("%d", ans);

return 0;

}